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(54) N-LOWER ALKANOYLGUANINE DERIVATIVE AND ITS USE

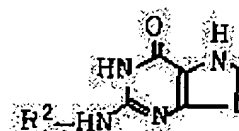
(57)Abstract:

NEW MATERIAL: A compound shown by the formula I (R1 and R2 are lower alkanoyl; A1 and A2 are lower alkylene; dotted line is double bond either at 7- and 8- positions of guanine ring or at 8- and 9- positions) and its salt.

EXAMPLE: N-Acetyl-7-(2-acetoxyethoxymethyl)guanine.

USE: An intermediate for synthesizing a guanine derivative of an antiviral agent.

PROCESS: An N-lower alkanoylguanine shown by the formula II is reacted with a compound shown by the formula III (R3 is lower alkanoyl) usually in the absence of a solvent in the presence of a protonic acid such as preferably methanesulfonic acid, etc. at 100W250°C to give a compound shown by the formula I. This compound is further subjected to dealkanoylation to give a guanine derivative.



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